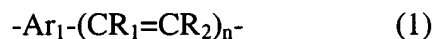


**AMENDMENTS TO THE CLAIMS**

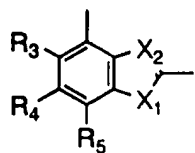
**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (previously presented): A polymeric fluorescent substance exhibiting fluorescence in the solid state, having a polystyrene reduced number-average molecular weight of  $1 \times 10^3$  to  $1 \times 10^8$ , and comprising one or more repeating units of formula (1) and one or more repeating units of formula (8),

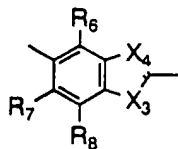


in the formula,  $\text{Ar}_1$  is a divalent group represented by one of the following formulae (2) to (7);  $\text{R}_1$  and  $\text{R}_2$  each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and cyano group; and  $n$  is 0 or 1,

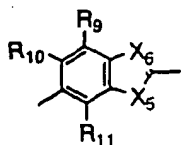


(2)

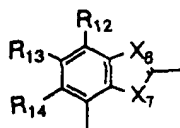
AMENDMENT UNDER 37 C.F.R. § 1.114(c)  
U.S. Application No. 09/995,814



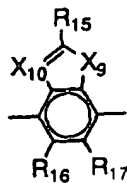
(3)



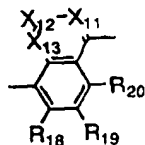
(4)



(5)



(6)

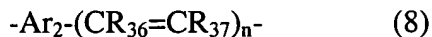


(7)

in the formulae (2) to (7),  $X_1$ ,  $X_3$ ,  $X_5$ ,  $X_7$  and  $X_9$  each independently represent a group selected from  $-CR_{21}=CR_{22}-$ ,  $-CR_{23}=N-$ ,  $-N=CR_{24}-$ ,  $-O-CO-$ ,  $-CR_{25}R_{26}-$ ,  $-CO-$ ,  $-O-$ ,  $-S-$ ,  $-Se-$ ,  $-NR_{27}-$  and  $-SiR_{28}R_{29}-$ ;  $X_2$ ,  $X_4$ ,  $X_6$ ,  $X_8$  and  $X_{10}$  to  $X_{13}$  each independently represent a group selected from  $-CR_{30}=$  and  $-N=$ ;  $R_3$  to  $R_{30}$  each independently represent a hydrogen atom or a substituent selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, alkylphenyl group, alkoxyphenyl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group,

AMENDMENT UNDER 37 C.F.R. § 1.114(c)  
U.S. Application No. 09/995,814

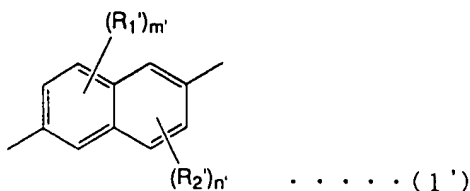
arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkynyl group, monovalent heterocyclic compound group and cyano group; at least one of  $R_3$  to  $R_{30}$  is not a hydrogen atom,



in the formula,  $\text{Ar}_2$  represents an arylene group or divalent heterocyclic compound group, but the group is not represented by any of formulae (2) to (7);  $\text{Ar}_2$  may have one or more substituents; when  $\text{Ar}_2$  has a plurality of substituents, they may be the same or different;  $R_{36}$  and  $R_{37}$  each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and a cyano group; and  $n$  represents 0 or 1.

2. (previously presented): The polymeric fluorescent substance according to claim 1 wherein  $\text{Ar}_1$  in formula (1) has one or more substituents selected from an alkylphenyl group, alkoxyphenyl group and a monovalent heterocyclic compound group.

3. (currently amended): The polymeric fluorescent substance according to claim 1 or 2 wherein  $\text{Ar}_1$  in formula (1) is represented by formula (1'),

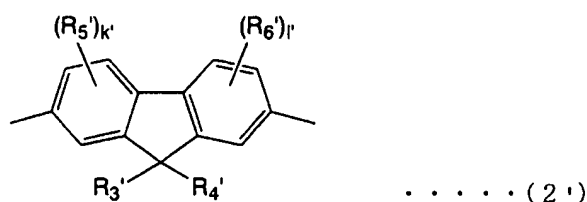


in the formula,  $R_1'$  and  $R_2'$  represent each independently a group selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, ~~aryl group~~ alkylphenyl group, alkoxyphenyl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkynyl

AMENDMENT UNDER 37 C.F.R. § 1.114(c)  
U.S. Application No. 09/995,814

group, monovalent heterocyclic compound group, and cyano group;  $m'$  and  $n'$  are integers of 0-3 each independently; however,  $m'$  and  $n'$  are not 0 simultaneously; when  $m'$  is two or more, two or more  $R_1'$  may be the same or different; when  $n'$  is two or more, a plurality of  $R_2'$  may be the same or different; moreover,  $R_1'$  and  $R_2'$  may be connected to form a ring.

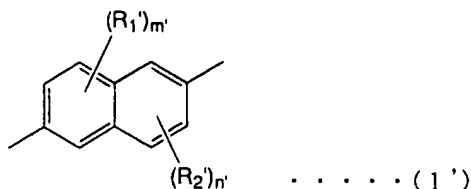
4. (original): The polymeric fluorescent substance according to claim 1 or 2 wherein  $Ar_2$  in formula (8) is represented by formula (2'),



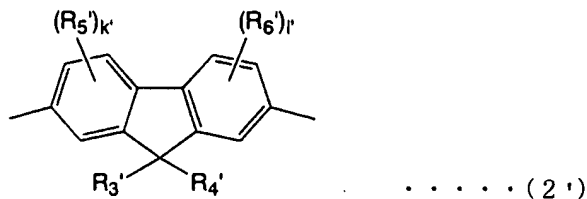
in the formula,  $R_3'$  and  $R_4'$  represent independently a group selected from a hydrogen atom, alkyl group, aryl group, and a heterocyclic compound group;  $R_5'$  and  $R_6'$  show each independently a group selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, aryl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkynyl group, monovalent heterocyclic compound group, and cyano group;  $k'$  and  $l'$  are integers of 0-3 each independently; when  $k'$  is two or more, a plurality of  $R_5'$  may be the same or different; when  $l'$  is two or more, plurality of  $R_6'$  may be the same or different;  $R_3'$ - $R_6'$  may be connected to form a ring.

5. (currently amended): The polymeric fluorescent substance according to claim 1 or 2 wherein  $Ar_1$  in formula (1) is represented by formula (1'),

AMENDMENT UNDER 37 C.F.R. § 1.114(c)  
U.S. Application No. 09/995,814



in the formula,  $R_1'$  and  $R_2'$  represent each independently a group selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, ~~aryl group~~ alkylphenyl group, alkoxyphenyl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkynyl group, monovalent heterocyclic compound group, and cyano group;  $m'$  and  $n'$  are integers of 0-3 each independently; however,  $m'$  and  $n'$  are not 0 simultaneously; when  $m'$  is two or more, two or more  $R_1'$  may be the same or different; when  $n'$  is two or more, a plurality of  $R_2'$  may be the same or different; moreover,  $R_1'$  and  $R_2'$  may be connected to form a ring, and  $Ar_2$  of formula (8) is represented by formula (2')



in the formula,  $R_3'$  and  $R_4'$  represent independently a group selected from a hydrogen atom, alkyl group, aryl group, and a heterocyclic compound group;  $R_5'$  and  $R_6'$  show each independently a group selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, aryl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkynyl group,

monovalent heterocyclic compound group, and cyano group;  $k'$  and  $l'$  are integers of 0-3 each independently; when  $k'$  is two or more, a plurality of  $R_5'$  may be the same or different; when  $l'$  is two or more, plurality of  $R_6'$  may be the same or different;  $R_3'$ - $R_6'$  may be connected to form a ring.

6. (original): The polymeric fluorescent substance according to claim 1 or 2 wherein the total amount of repeating units represented by formulae (1) and (8) is 50 mol % or more based on the total amount of all repeating units, and the amount of repeating units represented by formula (1) is 0.1 mol % or more and 95 mol % or less based on the total amount of the repeating units represented by formulae (1) and (8).

7. (original): The polymeric fluorescent substance according to claim 1 or 2 wherein the total amount of repeating units represented by formulae (1) and (8) is 50 mol % or more based on the total amount of all repeating units, and the amount of repeating units represented by the formula (1) is 5 mol % or more and 95 mol % or less based on the total amount of the repeating units represented by the formulae (1) and (8).

8. (previously presented): A polymer light emitting device comprising at least a light emitting layer between a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semi-transparent wherein the light emitting layer comprises a polymeric fluorescent substance according to claim 1.

9. (previously presented): The polymer light emitting device according to claim 8, further comprising a layer comprising a conducting polymer disposed between one electrode and

the light emitting layer such that the layer containing a conducting polymer is adjacent to said electrode.

10. (original): The polymer light emitting device according to claim 8, further comprising an insulation layer having a thickness of 2 nm or less disposed between one electrode and the light emitting layer such that the insulation layer is adjacent to said electrode.

11. (original): The polymer light emitting device according to any one of claims 8 to 10, further comprising a layer comprising an electron transporting compound disposed between the cathode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer.

12. (original): The polymer light emitting device according to any one of claims 8 to 10, further comprising a layer comprising a hole transporting compound disposed between the anode and the light emitting layer such that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

13. (previously presented): The polymer light emitting device according to any one of claims 8 to 10, further comprising a layer comprising an electron transporting compound disposed between the cathode and the light emitting layer and a layer comprising a hole transporting compound disposed between the anode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer, and the layer comprising a hole transporting compound is adjacent to said light emitting layer.

14. (original): A flat light source comprising the polymer light emitting device of any one of claims 8 to 10.

15. (original): A segment display comprising the polymer light emitting device of any one of claims 8 to 10.

16. (original): A dot matrix display comprising the polymer light emitting device of any one of claims 8 to 10.

17. (original): A liquid crystal display comprising the polymer light emitting device of any one of claims 8 to 10 as a back-light.

18. (previously presented): A polymer light emitting device comprising at least a light emitting layer between a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semi-transparent wherein the light emitting layer comprises a polymeric fluorescent substance according to claim 2.

19. (previously presented): The polymer light emitting device according to claim 18, further comprising a layer comprising a conducting polymer disposed between one electrode and the light emitting layer such that the layer containing a conducting polymer is adjacent to said electrode.

20. (previously presented): The polymer light emitting device according to claim 18, further comprising an insulation layer having a thickness of 2 nm or less disposed between one electrode and the light emitting layer such that the insulation layer is adjacent to said electrode.

21. (previously presented): The polymer light emitting device according to any one of claims 18 to 20, further comprising a layer comprising an electron transporting compound disposed between the cathode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer.



AMENDMENT UNDER 37 C.F.R. § 1.114(c)  
U.S. Application No. 09/995,814

22. (previously presented): The polymer light emitting device according to any one of claims 18 to 20, further comprising a layer comprising a hole transporting compound disposed between the anode and the light emitting layer such that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

23. (currently amended): The polymer light emitting device according to any one of claims 18 to 20, further comprising a layer comprising an electron transporting compound disposed between the ~~anode~~ cathode and the light emitting layer and a layer comprising a hole transporting compound disposed between the ~~cathode~~ anode and the light emitting layer such that the layer comprising an electron transporting compound is adjacent to said light emitting layer, and the layer comprising a hole transporting compound is adjacent to said light emitting layer.

24. (previously presented): A flat light source comprising the polymer light emitting device of any one of claims 18 to 20.

25. (previously presented): A segment display comprising the polymer light emitting device of any one of claims 18 to 20.

26. (previously presented): A dot matrix display comprising the polymer light emitting device of any one of claims 18 to 20.

27. (previously presented): A liquid crystal display comprising the polymer light emitting device of any one of claims 18 to 20 as a back-light.